

## CLAIMS

Therefore, having thus described the invention, at least the following is claimed:

- 1           1.       A video system comprising:  
2           an image capture system configured to capture a plurality of frames of a video  
3 clip;  
4           a sequence data generating system for generating data indicative of frame  
5 position of each of the plurality of frames;  
6           an orientation sensor configured to provide orientation information for each of  
7 the plurality of frames at the time each frame is captured; and  
8           a processor configured to incorporate the orientation information and sequence  
9 data into each frame.
  
- 1           2.       The system of claim 1, wherein the orientation information resides in a  
2 frame header of each frame.
  
- 1           3.       The system of claim 2, further comprising a memory configured to  
2 receive each frame wherein the orientation information resides.
  
- 1           4.       The system of claim 1, further comprising a display configured to  
2 display each frame using the orientation information, such that the displayed frame is  
3 oriented the same as an orientation of the image capture system when the frame was  
4 captured.

1           5.       A method for creating a frame of a video clip, the method comprising  
2 the steps of:  
3           capturing an image with an image capture device;  
4           generating a frame having at least image data corresponding to the captured  
5 image and sequence data indicative of a frame position in the video clip;  
6           sensing an orientation of the image capture device at the time the image is  
7 captured; and  
8           incorporating the orientation information corresponding to the sensed  
9 orientation into the frame.

1           6.       The method of claim 5, further comprising repeating the steps of claim  
2 6 to capture a plurality of serially sequenced frames corresponding to the video clip.

1           7.       The method of claim 5, wherein the step of incorporating the  
2 orientation information comprises incorporating the orientation information into a  
3 header of the frame.

1           8.       The method of claim 5, wherein the step of incorporating the  
2 orientation information comprises incorporating the orientation information into the  
3 frame as a file.

1           9.       The method of claim 5, wherein the step of incorporating the  
2 orientation information comprises incorporating the orientation information into the  
3 image data.

1           10.      The method of claim 5, further comprising the step of saving the frame  
2 to a memory comprising a plurality of serially sequenced frames corresponding to the  
3 video clip.

1           11.     A method for displaying a frame of a video clip, the method  
2 comprising the steps of:  
3           receiving the frame having at least image data and sequence data  
4 corresponding to an image captured by an image capture device;  
5           receiving orientation information residing in the frame;  
6           determining an orientation of the frame, the orientation of the frame  
7 corresponding to the orientation of the image capture device at the time the image was  
8 captured; and  
9           displaying the frame oriented in accordance with the determined orientation.

1           12.     The method of claim 11, further comprising the step of selecting the  
2 frame from a plurality of serially sequenced frames corresponding to the video clip.

1           13.     The method of claim 11, further comprising the step of receiving the  
2 orientation information from a header of the frame.

1           14.     The method of claim 11, further comprising the step of retrieving the  
2 frame from a memory.

1           15.     The method of claim 11, further comprising the steps of:  
2           communicating the frame from an image capture device to a processing  
3 device; and  
4           displaying the frame on a display coupled to the processing device.

1           16.     The method of claim 11, further comprising displaying the frame on a  
2 display coupled to the image capture device.

1           17.     A system for providing orientation information for frames of a video  
2 clip, comprising:  
3           means for capturing an image;  
4           means for generating a frame having at least image data corresponding to the  
5 captured image and sequence data, wherein the frame is one of a plurality of serially  
6 sequenced frames corresponding to the video clip;  
7           means for sensing an orientation of an image capture device at the time the  
8 image is captured;  
9           means for incorporating the orientation into the frame; and  
10          means for storing the frame with the orientation in a memory.

1           18.     The system of claim 17, further comprising a means for generating  
2 orientation information from the orientation of the image capture device such that the  
3 orientation information is incorporated into the frame.

1           19.     The system of claim 18, wherein the means for incorporating  
2 comprises means to store the orientation information in a header of the frame.

1           20.     A computer-readable medium having a program for displaying a frame  
2 of a plurality of serially sequenced frames corresponding to a video clip, the program  
3 comprising logic configured to perform the steps of:  
4           retrieving the frame from a memory, the frame having at least image data  
5 corresponding to a captured image that was captured by an image capture device and  
6 sequence data;  
7           receiving orientation information residing in the frame;  
8           determining an orientation of the frame, the orientation of the frame  
9 corresponding to the orientation of the image capture device when the image was  
10 captured; and  
11          displaying the frame in accordance with the determined orientation.

1           21.     A computer-readable medium having a program for providing  
2 orientation information for a frame of a video clip, the program comprising logic  
3 configured to perform the steps of:  
4           receiving information from an image capturing system, the information  
5 corresponding to a captured image;  
6           generating a frame having at least image data and sequence data corresponding  
7 to the captured image, wherein the frame is one of a plurality of serially sequenced  
8 frames corresponding to the video clip;  
9           sensing an orientation of an image capture device at the time the frame is  
10 generated; and  
11          incorporating the orientation into the frame.

1           22.     A video clip comprising:  
2           a first frame comprising image data, video sequence data and image  
3 orientation data; and;  
4           a second frame comprising second image data, second video sequence data and  
5 second image orientation data, the second frame serially sequenced immediately  
6 behind the first frame.